

February 2012

[LA 653]

Sub. Code: 4169

FIRST B.D.S. DEGREE EXAMINATION**PAPER II – GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY***Q.P. Code: 544169***Time : 3 hours
(180 Min)****Maximum : 70 marks**

**Answer ALL questions in the same order.
Draw Suitable diagrams wherever necessary
Answer Section A and B in Separate Answer Books**

**SECTION –A
(HUMAN PHYSIOLOGY)****I. Elaborate on:****(1 x 10 = 10)**

1. Describe the intrinsic mechanism of coagulation.

II. Write notes on:**(5 x 5 = 25)**

1. Helper T cells.
2. Conducting system of heart.
3. Proteolytic enzymes of pancreatic juice.
4. Actions of thyroid hormones.
5. Refractive errors of eye.

**SECTION –B
(BIOCHEMISTRY)****I. Elaborate on:****(1 x 10 = 10)**

1. Define and classify enzymes. List out and explain the factors influencing enzyme activity. Add notes on enzymes of clinical interest.

II. Write notes on:**(5 x 5 = 25)**

1. Deficiency manifestations of calcium, phosphorus and fluorine
2. Deficiency manifestations and hypervitaminosis of vitamin A
3. Tricarboxylic acid cycle
4. a. Normal values of Lipid profiles
b. Plasma lipoproteins
5. Classify proteins based on composition and solubility, function, shape and based on nutritional value.
